

GENERAL DESIGN GUIDELINES

- 1

SHOW ONLY THE APPLICABLE GENERAL PLAN NOTES. GENERATE FROM NEW LIST EACH TIME A NOTE SHEET IS CREATED. [HTTP://MDOTWAS1.MDOT.STATE.MI.US/PUBLIC/BBS/INDEX.CFM](http://MDOTWAS1.MDOT.STATE.MI.US/PUBLIC/BBS/INDEX.CFM) ***
PLACE GENERAL NOTES IN ORDER ACCORDING TO THE RD.NOTES.DAT ORDER.
- 2

USE ONE OF THE APPLICABLE STANDARD UTILITY NOTES IN THIS AREA.
- 3

ADDITIONAL SPACE AVAILABLE HERE FOR ADDITIONAL UNIQUE PROJECT SPECIFIC PLAN NOTES.
- 4

ADDITIONAL SPACE AVAILABLE HERE FOR ADDITIONAL MISCELLANEOUS ESTIMATES.
- 5

SHOW COLUMN FOR PAY ITEMS/QUANTITIES FOR EACH JOB NUMBER AND FOR ACT 51 PARTICIPATING CITIES. IDENTIFY ALL THE VARIOUS CATEGORIES USED FOR THE PROJECT FOR MULTIPLE CATEGORIES. BREAKOUT QUANTITIES ON PLAN AND PROFILE SHEET FOR MULTIPLE CATEGORIES
- 6

COMPLETE ANY APPLICABLE PROJECT INFORMATION.
- 7

USE LATEST STANDARD PLANS FOR WORK IN THE PROJECT. ATTACH A COPY OF ALL SPECIAL DETAILS AT THE END OF THE SET OF PLANS.
[HTTP://MDOTWAS1.MDOT.STATE.MI.US/PUBLIC/DESIGN/ENGLISHSTANDARDPLANS/INDEX.HTM](http://MDOTWAS1.MDOT.STATE.MI.US/PUBLIC/DESIGN/ENGLISHSTANDARDPLANS/INDEX.HTM)
- 8

USE LATEST TRAFFIC AND SAFETY STANDARD PLANS, ATTACH A COPY OF ALL SPECIAL DETAILS FOR SIGNS. THE SIGNING NOTES GO IN FRONT OF THE SIGNING PLAN PACKAGE WITH THE REMAINING SIGNING SPECIAL DETAILS FOLLOWING THE SIGNING PLANS. [HTTP://WWW.MDOT.STATE.MI.US/TANDS/PLANS.CFM](http://WWW.MDOT.STATE.MI.US/TANDS/PLANS.CFM)

*** THE NOTES USED TO PREPARE A NOTE SHEET CAN BE FOUND UNDER CAD_ENG UNDER RD.NOTES.DAT

ENGINEERING REPORT NO

N/A

ENVIRON IMPACT STMT

N/A

METHOD OF SURVEY

N/A

YEAR

SURVEY ORDER

N/A

SURVEY CHIEF

N/A

YEAR

AERIAL SURVEY NO

6

N/A

YEAR

HORIZ DATUM

N/A

VERT DATUM

N/A

ROAD DESIGN INITIATED

D. Bradley

COMPLETED

D. Bradley

PREL. BRIDGE PLANS BY

G. Feuerstein

FINAL PLANS BY

D. Bradley / G. Feuerstein

FIELD INSPECTION (GI) BY

D. Johnson, D. Bradley, A. Maki

DATE

5-11-04

FHWA AREA ENGINEER

N/A

GENERAL PLAN NOTES

1

UNDERGROUND UTILITIES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL DIAL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

ADJUSTING MONUMENT BOXES

ALL GOVERNMENT CORNERS ON THIS PROJECT SHALL BE PRESERVED, WHETHER SHOWN OR NOT. IT MAY BE NECESSARY TO PLACE OR ADJUST MONUMENT BOXES, AS REQUIRED.

BRIDGE APPROACH SLABS

THE CONCRETE APPROACH SLAB TO BRIDGES SHALL BE THICKENED TO MATCH THE EXISTING BRIDGE SEAT. THE ADDITIONAL STEEL REINFORCEMENT AND ADDITIONAL THICKNESS OF CONCRETE AS PER STANDARD PLAN R-45 SERIES IS INCLUDED IN THE APPROACH SLAB CONCRETE PAVEMENT PAY ITEM.

STATIONING

STATIONING ON THIS PROJECT WAS TAKEN FROM OLD PLANS AND PAVEMENT STENCILED STATIONING AND IS NOT NECESSARILY ACCURATE.

GUARDRAIL

GUARDRAIL SHALL BE EXTENDED PARALLEL TO EXISTING BRIDGE RAILING UNTIL PAST DOWNSPOUTS BEFORE FLARING TO SHOULDER.

PAVEMENT REMOVAL QUANTITIES

PAVEMENT REMOVAL AS SHOWN ON THE PLANS WILL BE AT THE DISCRETION OF THE ENGINEER. IF IN HIS/HER JUDGEMENT, AREAS OF PAVEMENT MAY BE LEFT IN PLACE, OR ADDITIONAL AREAS ADDED TO PROVIDE THE PROPER CROSS-SECTION AND BASE, CHANGES CAN BE MADE IN THE QUANTITIES.

SLOPES

CLASS A SLOPES SHALL BE CONSTRUCTED ON THIS PROJECT.

SOIL EROSION MEASURES

APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTH-DISTURBING ACTIVITIES. PLACE TURF ESTABLISHMENT ITEMS AS SOON AS POSSIBLE ON POTENTIAL ERODABLE SLOPES AS DIRECTED BY THE ENGINEER. CRITICAL DITCH GRADES SHALL BE PROTECTED WITH EITHER SOD OR SEED/MULCH OR MULCH BLANKET AS DIRECTED BY THE ENGINEER.

SOIL BORINGS AND/OR PAVEMENT CORES

THE SOIL BORING LOGS AND/OR PAVEMENT CORES REPRESENT POINT INFORMATION. NO INFERENCE SHOULD BE MADE THAT SUBSURFACE OR PAVEMENT CONDITIONS ARE THE SAME AT OTHER LOCATIONS.

EARTHWORK

EARTHWORK QUANTITIES ARE COMPUTED BASED UPON LIMITED SURVEY INFORMATION. THESE QUANTITIES ARE FOR BIDDING PURPOSES ONLY AND WILL BE ADJUSTED BY THE ENGINEER BASED UPON ACTUAL FIELD MEASUREMENTS.

PAVEMENT MARKINGS

ALL PERMANENT PAVEMENT MARKINGS, SHAPES, AND DIMENSIONS SHALL CONFORM WITH MDOT PAVEMENT MARKING TYPICALS VIII-900 THRU 990 SERIES UNLESS SPECIFIED BY SPECIAL PROVISION. ALL EDGE LINES SHALL BE 6 INCHES AND ALL GORE MARKINGS SHALL BE 12 INCHES. OFFSETS FROM CONSTRUCTION JOINTS SHALL REMAIN AS NOTED IN THE PAVEMENT MARKING TYPICALS.

PERMANENT SIGNS

ANY PERMANENT SIGNS REQUIRING RELOCATION DUE TO CONTRACTOR OPERATIONS SHALL BE SALVAGED AND RESET BY THE CONTRACTOR AT LOCATIONS DESIGNATED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE BORNE BY THE CONTRACTOR.

RECREATIONAL PROPERTIES

THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR STORE ANY EQUIPMENT ON ANY PUBLIC RECREATIONAL PROPERTY. ACCESS TO THE RECREATIONAL SITE MUST BE MAINTAINED AT ALL TIMES.

EARTH DISTURBANCE LIMITS

THE EARTH DISTURBANCE LIMIT FOR THIS PROJECT WILL BE LIMITED TO 10' BEYOND THE SLOPE STAKE LINE OR TO THE ROW LINE WHICHEVER IS LESS FOR ALL AREAS EXCEPT FOR WETLAND AREAS. FOR AREAS ADJACENT TO WETLANDS, THE EARTH DISTURBANCE LIMIT WILL BE LIMITED TO THE SLOPE STAKE LINE. RESTORATION MEASURES HAVE BEEN INCLUDED IN THIS SET OF PLANS FOR THE APPROVED AREAS OF DISTURBANCE. THE CONTRACTOR SHALL SUBMIT AN EARTH CHANGE PLAN FOR ANY WORK BEYOND THE APPROVED LIMITS AND RESTORATION OF THESE AREAS SHALL BE AT CONTRACTOR'S EXPENSE.

3

UTILITIES

2

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES.

NAME OF OWNER

KIND OF UTILITY

SBC (AMERITECH)
ATTN: MARSHA BERTOLDI
211 EAST B STREET
IRON MOUNTAIN, MI 49801
(906) 779-2744

TELEPHONE

WE ENERGIES
ATTN: NOEL ANDERSON
800 INDUSTRIAL PARK DRIVE
IRON MOUNTAIN, MI 49801
(906) 779-2498

ELECTRIC

3

7

NOTES APPLYING TO ROAD & BRIDGE STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

APPROACH CURB & GUTTER, DOWNSPOUTS
(FOR BRIDGE APPROACH CURB AND GUTTER)

R-32-D (SPEC. DET)

TRANSVERSE PAVEMENT JOINTS

R-39-G (SPEC. DET)

LONGITUDINAL PAVEMENT JOINTS

R-41-D

LOCATION OF TRANSVERSE JOINTS IN CONCRETE PAVEMENT

R-43-D (SPEC. DET)

CONVENTIONAL PAVEMENT REINFORCEMENT

R-45-E

TEMPORARY CONCRETE BARRIER

R-52-D

GUARDRAIL AT BRIDGES AND EMBANKMENTS

R-59-E

GUARDRAIL TYPES A, B, BD, T & TD

R-60-F

GUARDRAIL ANCHORAGE, BRIDGE, DETAILS

R-67-E

SOIL EROSION & SEDIMENTATION CONTROL MEASURES

R-96-C

PLACEMENT OF TEMPORARY CONCRETE BARRIER

R-126-C (SPEC. DET)

BRIDGE RAILING, AESTHETIC PARAPET TUBE

B-25-C

MOLDING, BEVEL, LIGHT STANDARD ANCHOR BOLT ASSEMBLY
AND NAME PLATE DETAILS

B-103-D

8

NOTES APPLYING TO TRAFFIC & SAFETY STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

GENERAL NOTES

SPEC. DET

STANDARD SIGN INSTALLATIONS

SIGN-100-A

STANDARD ROUTE MARKER INSTALLATIONS

SIGN-110-A

SIGN LOCATION CODES PLACEMENT

SIGN-115-A

ROADSIDE SIGN LOCATIONS & SUPPORT SPACING

SIGN-120-A

STEEL POSTS

SIGN-200-A

WOOD POSTS

SIGN-210-A

GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS

WZD-100-A (SPEC.DET)

TEMPORARY TRAFFIC CONTROL DEVICES

WZD-125-D

DRAINAGE STRUCTURE COVERS

THE FOLLOWING IS A SUMMARY OF THE ESTIMATED DRAINAGE STRUCTURE COVERS FOR INFORMATION ONLY.

COVER TYPE	AMOUNT (EACH)	TOTAL WEIGHT (LBS)
B	8	2800
E	2	400
K	12	6000

CATEGORY 0001 REG PART = FED, STATE, CITY
CATEGORY 0003 MARQUETTE PART = 100% MARQUETTE
CATEGORY 0005 NON CITY = FED, STATE

5

MISCELLANEOUS ESTIMATES

THE FOLLOWING ITEMS OF WORK SHALL BE DONE AS THEY APPLY THROUGHOUT THE PROJECT. THESE ITEMS ARE NOT DETAILED OR INCLUDED ON THE PLAN AND PROFILE SHEETS:

MISCELLANEOUS PROJECT QUANTITIES

4

CAT 0005

CAT 0003

CAT 0001

0.01

0.49

0.50 LS

Mobilization, Max.

5

MAINTAINING TRAFFIC

CAT 0005

CAT 0003

CAT 0001

0.01

0.49

0.49

2 Ea

Lighted Arrow, Type C, Furn

2 Ea

Lighted Arrow, Type C, Oper

1 Ea

Lighted Arrow, Type C, Standby

20 Ea

Plastic Drum, High Intensity, Lighted, Furn

20 Ea

Plastic Drum, High Intensity, Lighted, Oper

12 Sft

Sign, Type A, Temp, Furn

12 Sft

Sign, Type A, Temp, Oper

651 Sft

Sign, Type B, Temp, Furn

651 Sft

Sign, Type B, Temp, Oper

0.5 LS

Minor Traf Devices

0.5 LS

Flag Control

550 Ft

Conc Barrier, Temp, Furn

550 Ft

Conc Barrier, Temp, Oper

550 Ft

Conc Barrier, Temp, Adjusted

20 Ea

Conc Barrier Reflector Replacement

20 Ea

Sand Module Impact Attenuator (Temp)

5 Ea

Sand Module Impact Attenuator (Replacement)

2000 Ft

Pavt Mrkg, Type NR, Paint, 4 inch, White, Temp

2000 Ft

Pavt Mrkg, Type NR, Paint, 4 inch, Yellow, Temp

80 Ft

Pavt Mrkg, Type R, 4 inch, Yellow, Temp

4000 Ft

Pavt Mrkg, Longit., 6 inch or Less Width, Rem

24 Ft

Pavt Mrkg, Longit., Greater than 6 inch Width, Rem

200 Ft

Guardrail Height, Adj

5

PERMANENT PAVEMENT MARKINGS

CAT 0005

CAT 0003

CAT 0001

2000

4000

2000

4000

Ft

Pavt Mrkg, Waterborne, 4 inch, Yellow

Ft

Pavt Mrkg, Waterborne, 6 inch, White

Ft

Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow

Ft

Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White

5

SLOPE RESTORATION AND EROSION CONTROL

CAT 0005

CAT 0003

CAT 0001

250

250

250 Ft

Erosion Control, Maintenance, Sediment Removal

100 Syd

Erosion Control, Silt Fence

100 Syd

Topsoil Surface, Furn, 4 inch

5 Lb

Mulch Blanket

5 Lb

Seeding, Mixture THV

5

Fertilizer, Chemical Nutrient, CI A

5

PERMANENT SIGNING

CAT 0005

CAT 0003

CAT 0001

108 Ft

Post, Steel, 3 lb

400 Sft

Sign, Type IIA

200 Sft

Sign, Type IIB

3 Ea

Sign, Type I, Erect, Salv

48 Ft

Post, Wood, 4 inch by 6 inch

3 Ea

Sign, Type I, Rem

18 Ea

Sign, Type II, Rem

6-1

MDOT

Michigan Department of Transportation

DATE

07-29-04

CONT. SEC.

JOB NO.

DESIGN UNIT

4

SHEET NO.

R.O.W

CONST.

FILE NAME: Note.dgn

DATE:

WORKED ON BY:

CHECKED BY: